Charité - Universitätsmedizin Berlin - Institut für Pathologie

Das Institut für Pathologie der Charité - Universitätsmedizin Berlin ist eine der größten und bekanntesten Universitätspathologien in Deutschland. Wir versorgen die Kliniken der Charité und externe Einsender mit dem gesamten Spektrum der diagnostischen Pathologie inklusive aller Spezialbereiche. Außerdem vertreten wir das Fach in einer exzellenten Forschung und Lehre.

PhD Position in Cancer Genomics and 3D Genome Organization

CRISPR-based modeling of oncogenic 3D genome rewiring

City: Berlin; Starting date (earliest): At the earliest possible; Duration: 2 years; Remuneration: E13 65%; Closing date: 15/01/26

Working field

We are seeking a highly motivated doctoral candidate to explore how cancer cells modify the 3D genome to manipulate gene regulation, leading to abnormal oncogene expression caused by high-level genomic amplifications. Using CRISPR-based methods, you will model recurring oncogenic changes in the 3D genome observed in breast and lung cancers to identify potential candidates for new cancer treatments.

The lab is funded by a Max Eder Grant from the German Cancer Aid and is based at the Institute of Pathology at Charité Campus Mitte. We have broad experience in both computational and experimental methods. You will collaborate closely with an international, interdisciplinary group that includes clinicians, bioinformaticians, and biologists. Numerous basic science and clinical collaborations in Berlin allow us to explore questions with translational potential. For more information, please visit https://www.duboislab.org/

Requirements

- MSc in Biology, Biochemistry, Bioengineering, or related field
- Experience in experimental biology (tissue culture, molecular biology, biochemistry)
- Strong intrinsic motivation, scientific curiosity, and organizational skills
- Strong communication skills in written and spoken English
- Collaborative mindset and proactive approach to problem-solving

What we offer

- A friendly, collaborative, and fast-paced research environment that strives for scientific excellence
- Excellent mentorship and many opportunities to develop new computational and experimental skills
- Engagement with clinically impactful research questions with translational potential

Application

Please send your application as a PDF, including a cover letter indicating your research interests, potential starting date, a curriculum vitae, grades overview/ class rank, publication list, and contact information of three references to frank.dubois@charite.de

More information at https://stellenticket.de/200135/FUB/
Offer visible until 27/12/25